PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT (PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12989-9	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicablé, item 5 below.
International application No. PCT/CA2004/001503	International filing date (day/month/year) 20 August 2004 (20-08-2004)	(Earliest) Priority date (day/month/year) 20 August 2003 (20-08-2003)
Applicant CASHMAN, NEIL		
This international search report has been precopy is being transmitted to the Internationa	pared by this International Searching Authority and is tr Bureau.	ansmitted to the applicant according to Article 18. A
This international search report consists of a	total of 8 sheets.	
[X] It is also accompanied	by a copy of each prior art document cited in this report	
1. Basis of the report		
a. With regard to the language, t filed, unless otherwise indicate	he international search was carried out on the basis of the	e international application in the language in which it wa
[] the internation Authority (R	nal search was carried out on the basis of a translation of ule 23.1(b)).	the international application furnished to this
b. [] With regard to any nu	cleotide and/or amino acid sequence disclosed in the	international application, see Box No. I.
2. [] Certain claims were	found unsearchable (See Box II).	
3. [] Unity of invention is	lacking (See Box III)	
4. With regard to the title.		
[] the text is approved as	submitted by the applicant.	
	olished by this Authority to read as follows:	
The submitted title does not Epitope protection a	comply with rule 4.3 of the <i>Regulations Under the l</i> assay and method for detecting pro	PCT. The following should be used: tein conformations
5. With regard to the abstract.		
[X] the text is approved as	submitted by the applicant,	
[] the text has been estab month from the date o	lished, according to Rule 38.2(b), by this Authority as it f mailing of this international search report, submit com	appears in Box IV. The applicant may, within one nents to this Authority.
6. With regard to the drawings,		
	be published with the abstract is Figure No. 1	
The figure of the drawnigs to		
	by the applicant.	
	y this authority, because the applicant failed to suggest a	•
	y this Authority, because this figure better characterizes t	he invention.
b. [] None of the figures is	to be published with the abstract.	

Form PCT/ISA/210 (first sheet) (January 2004)

Box	No. I		Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With re	egard to	o any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the action, the international search was carried out on the basis of:
	a.	type o	f material
		[]	a sequence listing
		[]	table(s) related to the sequence listing
	ъ.	forma	t of material
		[]	in written format
		[]	in computer readable form
	c.	time (of filing/furnishing
		[]	contained in the international application as filed
		[]	filed together with the international application in computer readable form
		[]	furnished subsequently to this Authority for the purposes of search
2	[]	filed	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been or furnished, the required statements that the information in the subsequent or additional copies is identical to that application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Additi	onal co	omments:
-			
	*		
		14 .	

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international reasons:	tional search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1 []	Claims Nos. : because they relate to subject matter not required to be searched by this Authority; namely:
2 []	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3 []	Claims Nos. : because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule
Box III	Observation where unity of invention is lacking (Continuation of item 3 of first sheet)
This Intern	ational Searching Authority found multiple inventions in this international application, as follows:
1 []	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2 []	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3 []	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos. :
٠.	
4 []	No required additional search fees were timely paid by the applicant. Consequently, this international search report is
4 []	restricted to the invention first mentioned in the claims, it is covered by claims Nos.:
Dane	Protest [] The additional search fees were accompanied by the applicant's protest.
Remark or	No protest [] The additional search fees were accompanied by the applicant's protest. [] No protest accompanied the payment of additional search fees.

Box IV Text of the abstract (Continuation of item 5 of first sheet)	
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International application No. PCT/CA2004/001503

A. CLASSIFICATION OF SUBJECT MATTER

According to the International Patent Classification (IPC) G01N 33/68, G01N 33/53, and G01N 33/569

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G01N 33

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Google and MSN Recherche

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

Pubmed, Derwent (from Delphion)

epitope*, épitope* (French), marqueur antigénique* (French), protect*, block*, detect*, denatur*, disaggregat*, conformat*, assay, prion, prion disease*, PrPsc, PrPc, succinic anhydride, diethyl pyrocarbonate, peroxynitrite

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Further documents are listed in the continuation of Box C.

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6406864 B2 (The Regent of the Univ. of California) 18 June 2002 Refer to col. 3-4, 12-16, example 6, and claim 8	1-8, 10-39
Y, P	CA 2452946 A1 (Ortho-clinical diagnostics, inc.) 19 June 2004 Refer to claim 4	31-38
Y	CA 2408762 A1 (Aventis behring GMBH) 19 April 2003 Refer to pages 2-8 and claim 6	1-8, 10-30, 39

Patent family members are listed in annex.

* Special categories of cited documents: "T" "A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family
Date of the actual completion of the international-type search 7 December 2004 (7-12-2004)	Date of mailing of the international-type search report 24 December 2004 (24-12-2004)
Name and mailing address of the ISA/ Commissioner of Patents Canadian Patent Office - PCT Ottawa/Gatineau K1A 0C9 Facsimile No. 1-819-953-9358	Authorized officer David Boudreau (819) 997-2926

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Form PCT/ISA/210 (continuation of second sheet) (January 2004)

	PCI/C	A2004/001503
C (Continuati	on). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Bolton et al. (Jul 1991). Molecular Location of a species-specific epitope on the hamster scrapie agent protein. <i>J of Virology</i> . 65 (3667-3675. Refer to page 3668, 1 st two paragraphs; and page 3671, subsection: Chemical modification of the epitope	7): 1-30, 39
A	Safar et al. (November 2002). Measuring prions causing bovine spongiform encephalopathy or chronic wasting disease by immunoassays and transgenic mice. <i>Nat Biotechnol.</i> 20 (11): 1147-1150. Refer to the whole document	1-8, 10-30, 39
Α	Paramithiotis et al. (Jul 2003). A prion protein epitope selective for the pathologically misfolded conformation. <i>Nat Med.</i> 9 (7): 893-89 Refer to page 893, 2 nd col.; page 894, 1 st col.; page 895; and methods.	or 1-8, 15-28
A	Goldberg M. (April 2003). Le prion: un agent pathogène encore mystérieux. Extrait de <i>La Letttre de l'Institut Pasteur</i> . 41 : 1-10. Refer to page 5, subsection: "Améliorer la sensibilité des tests de détections"	1-39
A	Guilbert C. (April 2001). La dynamique du prion. <i>Biofutur</i> , Hors Série avril 2001 : 30-32. Refer to the whole document for background on prion	1-39
A, E	Soto C. (October 2004). Diagnosing prion diseases: needs, challenges and hopes. <i>Nature Rev Microbiol</i> . 2 (10): 809-819. Refer to the whole document for background on prion detection method	1-39

INTERNATIONAL SEARCH REPORT Information on patent family members

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Document	Publication	Family	Publication
cited	date	member (s)	date
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International application No. PCT/CA2004/001503

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